

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1-7. (cancelled)

8. (currently amended) Magnetic conditioning device for diesel engine fuel, comprising: according to claim 1

a housing element configured to be placed along a fuel feeding line,

the housing element having a fuel inlet, a fuel outlet, and a wall in correspondence with the fuel inlet; and

two opposed magnetic elements located within the housing element, the two opposed magnetic elements inducing a magnetic field between the two opposed magnetic elements and along an obliged flowing fuel path between the fuel inlet and the fuel outlet,

the wall configured to turbulently deviate fuel entering the fuel inlet around the wall and along the obliged flowing fuel path through the magnetic field induced by the two opposed magnetic elements,

characterised in that said magnetic elements are comprised of two ferromagnetic opposed elements, on each of which

two ferromagnetic opposed elements permanent magnets are provided.

9. (previously presented) Magnetic conditioning device for diesel engine fuel according to claim 8, characterised in that said two ferromagnetic opposed elements are comprised of rings on which the permanent magnets are provided, the rings having an opposed polarisation of the faces faced toward the obliged fuel flowing path.

10. (previously presented) Magnetic conditioning device for diesel engine fuel according to claim 8, characterised in that said two ferromagnetic opposed elements are comprised of rings having an alternate polarisation between the permanent magnets placed side by side on the same ferromagnetic material, the provided permanent magnets having an opposed polarity respectively facing each other.

11. (previously presented) Magnetic conditioning device for diesel engine fuel according to claim 8, characterised in that said permanent magnets project inwardly into the obliged fuel flowing path with respect to the two ferromagnetic opposed elements.

12-21. (cancelled).